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Substitute for form 1449A/PTO			Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT			Application Number	10/625,307
			Filing Date	July 23, 2003
			First Named Inventor	Julia Elizabeth Thompson
			Group Art Unit	1644
			Examiner Name	Phillip Gambel
(use as many sheets as necessary)			Attorney Docket Number	05569.0007.CPUS02
Sheet	1	of	13	

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number – Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A1	4,816,397	03-28-1989	Boss et al.	
	A2	4,946,778	08-07-1990	Ladner et al.	
	A3	5,223,409	06-29-1993	Ladner et al.	
	A4	5,772,998	06-30-1998	Dasch et al.	
	A5	5,783,185	07-21-1998	Dasch et al.	
	A6	6,090,383	07-18-2000	Dasch et al.	
	A7	5,395,750	03-07-1995	Dillon et al.	
	A8	6,248,516	06-19-2001	Winter et al.	
	A9	5,885,793	03-23-1999	Griffiths et al.	
	A10	6,331,415	12-18-2001	Cabilly et al.	
	A11	5,091,513	02-25-1992	Huston et al.	
	A12	5,262,319	11-06-1993	Iwata et al.	
	A13	5,571,714	11-05-1996	Dasch et al.	
	A14	5,585,089	12-17-1996	Queen et al.	
	A15	5,616,561	04-01-1997	Barcellos-Hoff	
	A16	5,662,904	09-02-1997	Ferguson et al.	
	A17	6,419,928	07-16-2002	Dasch et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ - Kind Code ⁵ (if known)				
	B1	WO 88/06630	09-07-1988	Genex Corp.		
	B2	WO 88/09344	12-01-1988	Creative Biomolecules, Inc.		
	B3	EP 0 324 162	12-24-1988	Pluckthun et al.		
	B4	AU-B-27617/88	07-06-1989	Pluckthun et al.		
	B5	WO 90/02809	03-22-1990	Protein Engineering Corp.		
	B6	WO 90/05144	05-17-1990	Medical Research Council		
	B7	WO 90/14424	11-29-1990	Scripps Clinic & Research		

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				Foundation		
	B8	WO 90/14430	11-29-1990	Scripps Clinic & Research Foundation		
	B9	WO 90/14443	11-29-1990	Huse		
	B10	WO 91/10737	07-25-1991	Molecular Affinities Corp.		
	B11	WO 91/17271	11-14-1991	Affymax Technologies, N.V.		
	B12	WO 92/06204	04-16-1992	Ixsys, Inc.		
	B13	WO 92/09690	06-11-1992	Genentech, Inc.		
	B14	WO 92/18619	10-29-1992	Scripps Research Institute		
	B15	EP 0 368 684	03-09-1994	Medical Research Council		
	B16	EP A 0120694	10-03-1984	Celltech Limited		
	B17	EP A 0125023	11-14-1984	Genentech, Inc. et al.		
	B18	EP A 184187	06-11-1986	Teijin Limited		
	B19	EP A 0239400	09-30-1987	Winter		
	B20	EP B 0239400	09-30-1987	Winter		
	B21	GB 2188638	10-07-1987	Winter		
	B22	WO 91/04748	04-18-1991	La Jolla Cancer Research Foundation		
	B23	WO 92/01047	01-23-1992	Cambridge Antibody Technology Ltd et al.		
	B24	WO 92/17206	10-15-1992	The Victoria University of Manchester		
	B25	WO 92/20791	11-26-1992	Cambridge Antibody Technology Ltd et al.		
	B26	WO 93/06213	04-01-1993	Medical Research Council et al.		
	B27	WO 93/11161	06-10-1993	Enzon, Inc.		
	B28	WO 93/11236	06-10-1993	Medical Research Council et al.		
	B29	WO 93/14782	08-05-1993	La Jolla Cancer Research Foundation		
	B30	WO 93/17708	09-16-1993	Reed		
	B31	WO 93/19783	10-14-1993	The Whittier Institute for Diabetes and Endocrinology		
	B32	WO 93/21945	11-11-1993	The Regents of the Univ. of Cal., et al.		
	B33	WO 94/13804	06-11-1992	Cambridge Antibody Technology Ltd. et al.		
	B34	WO 94/18227	08-18-1994	Denzyme APS		

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Sheet	3	13	Attorney Docket Number	05569.0007.CPUS02

	B35	WO 95/13827	05-26-1995	The University of Sydney		
	B36	GB 2 288 118 A	10-11-1995	The Victoria University of Manchester		
	B37	WO 97/13844	04-17-1997	Cambridge Antibody Technology, Ltd.		

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher city and/or country where published	T ²
	C1	Bouanani, M. et al., "Autoimmunity to Human Thyrobllobulin," Arthritis and Rheumatism, 34(12):1585-1593 (1991)	
	C2	James, K. and Bell, G.T., "Human Monoclonal Antibody Production: Current Status and Future Prospects," Journal of Immunological Methods, 100:5-40 (1987)	
	C3	Kim, J.G. and Abeyounis, C.J., "Isolation and Characterization of Rat Carcinoembryonic Antigen," Int. Arch. Allergy Appl. Immunol., 92:43-49 (1990)	
	C4	Kim, J.G. and Abeyounis, C.J., "Monoclonal Rat Antibodies to Rat Carcinoembryonic Antigen," Immunological Investigations, 17(1):41-48 (1988)	
	C5	Portolano, S. et al., "A Human FAB Fragment Specific for Thyroid Peroxidase Generated by Cloning Thyroid Lymphocyte-Derived Peroxidase Genes in a Bacteriophage Lambda Library," Biochemical and Biophysical Research Communications, 179(1):372-377 (1991)	
	C6	Avrameas, "Natural Autoantibodies: From 'Horror Autotoxicus' to 'Gnothi Seauton'," Immunology Today 12:154-159 (1991)	
	C7	Bass et al., "Hormone Phage: An Enrichment Method for Variant Proteins With Altered Binding Properties," Proteins, Structure, Function and Genetics 8:309-314 (1990)	
	C8	Bendtsen et al., "Autoantibodies to Cytokines – Friends or Foes?," Immunology Today 11(5):167-169 (1990)	

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Sheet	4	13	Attorney Docket Number 05569.0007.CPUS02

C9	de la Cruz et al., "Immunogenicity and Epitope Mapping of Foreign Sequences via Genetically Engineered Filamentous Phage," J. Biol. Chem. 263(9):4318-4322 (1988)	
C10	Ditzel et al., "The Nature of the Autoimmune Antibody Repertoire in Human Immunodeficiency Virus Type 1 Infection," Proc. Natl. Acad. Sci. USA 91:3710-3714 (1994)	
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C12	Huse et al., "Generation of a Large Combinatorial Library of the Immunoglobulin Repertoire in Phage Lambda," Science 246:1275-1281 (1989)	
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C14	Kang et al., "Linkage of Recognition and Replication Functions by Assembling Combinatorial Antibody Fab Libraries Along Phage Surface," Proc. Natl. Acad. Sci. USA 88:4363-4366 (1991)	
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C17	McCafferty et al., "Phage Antibodies: Filamentous Phage Displaying Antibody Variable Domains," Nature 348:552-554 (1990)	
C18	Milstein, F.R.S., "Antibodies: a Paradigm for the Biology of Molecular Recognition," Proc. R. Soc. London B 239:1-16 (1990)	

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Sheet	5	13	

C19	Moynier et al., "The B Cell Repertoire in Rheumatoid Arthritis. I. Frequency of EBV-Inducible Circulating Precursors Producing Autoantibodies," Journal of Autoimmunity 4:631-649 (1991)	
C20	Nossal, "Immunologic Tolerance: Collaboration Between Antigen and Lymphokines," Science 245:147-153 (1989)	
C21	Parmley and Smith, "Antibody-Selectable Filamentous fd Phage Vectors: Affinity Purification of Target Genes," Gene 73:305-318 (1988)	
C22	Sanz et al., "Nucleotide Sequences of Eight Human Natural Autoantibody V _H Regions Reveals Apparent Restricted Use of V _H Families," The Journal of Immunology 142(11):4051-4061 (1989)	
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C25	Smith, "Filamentous Fusion Phage: Novel Expression Vectors That Display Cloned Antigens on the Virion Surface," Science 228:1315-1317 (1985)	
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C28	Yativ et al., "The Detection of Antithyroglobulin Activity in Human Serum Monoclonal Immunoglobulins (Monoclonal Gammopathies)," Immunol. Res. 12:330-337 (1993)	
C29	International Search Report: PCT/GB92/02240	
C30	Border et al., "Suppression of Experimental Glomerulonephritis by Antiserum Against Transforming Growth Factor β1," Nature, 346:371-374 (1990)	

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Sheet	6	13	

	C31	Dasch et al., "Monoclonal Antibodies Recognizing Transforming Growth Factor- β : Bioactivity Neutralization and Transforming Growth Factor β Affinity Purification," J. Immunol., 142(5):1536-1541 (1989)	
	C32	Larrick et al., "Recombinant Antibodies," Hum. Antibody. Hybridomas, 2:172-189 (1991)	
	C33	Bagshawe et al., "Antibody-Enzyme Conjugates Can Generate Cytotoxic Drugs from Inactive Precursors at Tumor Sites," Antibody, Immunoconjugates and Radiopharmaceuticals, 4:915-922 (1991)	
	C34	Barbas et al., "High-Affinity Self-Reactive Human Antibodies by Design and Selection: Targeting the Integrin Ligand Binding Site," Proc. Natl. Acad. Sci., USA, 90:10003-10007 (1993)	
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	C36	Bebbington et al., "High-Level Expression of a Recombinant Antibody From Myeloma Cells Using a Glutamine Synthetase Gene As An Amplifiable Selectable Marker," Bio/Technology, 10:169-175 (1992)	
	C37	Bird R. et al., "Single-Chain Antigen-Binding Proteins," Science, 242:423-426 (1988)	
	C38	Brown et al., "Physiochemical Activation of Recombinant Latent Transforming Growth Factor-beta's 1, 2, and 3," Growth Factors, 3:35-43 (1990)	
	C39	Burmester et al., "Mutational Analysis of a Transforming Growth Factor- β Receptor Binding Site," Growth Factors, 15:231-242 (1998)	
	C40	Bye et al., "Germline Variable of Gene Segment Derivation of Human Monoclonal Anti-Rh(D) Antibodies," J. Clin. Invest., 90(6):2481-2490	
	C41	Conner et al., "Correlation of Fibrosis and Transforming Growth Factor- β type 2 Levels in the Eye," J. Clin. Invest., 83:1661-1666 (1989)	

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C42	Danielpour et al., "Immunodetection and Quantitation of the Two Forms of Transforming Growth Factor-Beta (TGF-β1 and TGF-β2) Secreted by Cells in Culture," J. Cellular Physiology, 138:79-86 (1989)
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C46	Erlenbacher et al., "Increased Expression of TGF-β2 in Osteoblasts Results in an Osteoporosis-like Phenotype," J. Cell Biology, 132:195-210 (1996)
C47	Fisch, I. et al., "A Strategy of Exon Shuffling for Making Large Peptide Repertoires Displayed on Filamentous Bacteriophage," Proc. Natl. Acad. Sci., USA, 93:7761-7766 (1996)
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C50	Flanders et al., "Localization and Actions of Transforming Growth Factor-βs in the Embryonic Nervous System," Development, 113:183-191 (1991)
C51	Foreman et al., "A Simple Organ Culture Model for Assessing the Effects of Growth Factors on Corneal Re-epithelialization," Exp-Eye Res., 62:555-564 (1996)
C52	Gibson, Toby James, Studies in the Epstein-Barr Virus Genome, University of Cambridge: Ph.D. Dissertation, Date approved: 7 December 1984, BLDSC number: D58257/85, University of Cambridge, MRC Laboratory of Molecular Biology

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C53	Giri et al., "Effect of Antibody to Transforming Growth Factor β on Bleomycin Induced Accumulation of Lung Collagen in Mice," Thorax, 48:959-966 (1993)	
C54	Gram et al., "In Vitro Selection and Affinity Maturation of Antibodies from a Naive Combinatorial Immunoglobulin Library," Proc. Natl. Acad. Sci., USA, 89 :3576-3580 (1992)	
C55	Griffiths, A.D. et al., "Human Anti-Self Antibodies with High Specificity From Phage Display Libraries," EMBO J., 12(2) :725-734 (1993)	
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C57	Griffiths et al., "Three-Dimensional Structure of Recombinant Human Osteogenic Protein 1 : Structural Paradigm for the Transforming Growth Factor b Superfamily," Proc. Natl. Acad. Sci., USA, 93 :878-883 (1996)	
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C61	Hu et al., "Minibody: A Novel Engineered Anti-Carcinoembryonic Antigen Antibody Fragment (Single-Chain Fv-CH3) Which Exhibits Rapid, High-Level Targeting of Xenografts," Cancer Research, 56:3055-3061 (1996)	
C62	Huston J.S. et al., "Protein Engineering of Antibody Binding Sites: Recovery of Specific Activity in an Anti-digoxin Single-chain Fv Analogue Produced in Escherichia coli," Proc. Natl. Acad. Sci., USA, 85:5879-5883 (1988)	

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C63	Ikeda et al., "Human Transforming Growth Factor Type β 2: Production by a Prostatic Adenocarcinoma Cell Line, Purification, and Initial Characterization," Biochemistry, 26:2406-2410 (1987)	
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C66	Kaufman, R.J., "Selection and Coamplification of Heterologous Genes in Mammalian Cells," Methods Enzymology, 185:537-566 (1990)	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Application Number	10/625,307
		Filing Date	July 23, 2003
		First Named Inventor	Julia Elizabeth Thompson
		Group Art Unit	1644
		Examiner Name	Phillip Gambel
(use as many sheets as necessary)		Attorney Docket Number	05569.0007.CPUS02
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